BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly Owned by Government of Karnataka)

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No: BESCOM/GM(DAS/AGM-18/BC-19/
25-26/ 1769

O/o The General Manager(DAS)
BICC-1, 2nd Sector, 24th Main,
17th Cross, HSR Layout,
Bengalure-560102.
Date: 23.03.2026

Amendment to Technical specification of LRC & LBS

SUB: Expansion of Distribution Automation System to Peri-urban areas of Bengaluru city, District headquarters & Industrial areas across BESCOM jurisdiction- Reg.

REF: BESCOM/2025-26/OW/WORK_INDENT997 Dated: 13.02.2026.

Consequent to pre bid queries, in view of Expansion of Distribution Automation System to Peri-urban areas of Bengaluru city, District headquarters & Industrial areas across BESCOM jurisdiction, the following Amendments are issued.

Sl.No	Clause No	As per Tender Document	To be read as(in main & referred clauses)
1	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 1.4 Pg No. 6	Environmental Conditions Altitude above mean sea level 1200m	Environmental Conditions Altitude above mean sea level 1000m
2	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 1.5 Pg No. 6	Distribution Network Electrical Parameters System voltage standard ..... 11 kV (rms)	Distribution Network Electrical Parameters Highest system voltage ..... 12 kV (rms)

Sl.No	Clause No	As per Tender Document	To be read as(in main & referred clauses)
3	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 2.6 Pg No. 9	Nameplate Information Height and Weight of the SPB	Nameplate Information -Height and Weight of the sectionalizer
4	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 2.6 Pg No. 9	Nameplate Information- SF6 pressure details.	Deleted
5	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Table 3-1 Pg No. 12	Line Recloser Characteristics Rated Continuous current -600A	Line Recloser Characteristics Rated Continuous current -630A
6	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Table 3-1 Pg No. 12	Line Recloser Characteristics Rated Short Circuit breaking capacity (kA) - 20kA	Line Recloser Characteristics Rated Short Circuit breaking capacity (kA) - 12.5kA
7	Section – 6(C) Technical Specifications for Line Reclosers and Load	Line Recloser Characteristics Rated Short Circuit making capacity (kAp)- 50kA peak	Line Recloser Characteristics Rated Short Circuit making capacity (kAp)- 31.25kA peak

<table>
<tr><th>Sl.No</th><th>Clause No</th><th>As per Tender Document</th><th>To be read as(in main & referred clauses)</th></tr>
<tr><td></td><td>Break Switches Table 3-1 Pg No. 12</td><td></td><td></td></tr>
<tr><td>8</td><td>Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Table 3-1 Pg No. 12</td><td>Line Recloser Characteristics
Rated Short Circuit current withstand time - 21kA for 3 sec</td><td>Line Recloser Characteristics
Rated Short Circuit current withstand time -
12.5 kA for 3 sec</td></tr>
<tr><td>9</td><td>Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Table 3-1: Pg No. 12</td><td>Table 3-1: Line Recloser Characteristics<table><tr><td>19</td><td>Type PT/VT</td><td>Outdoor double pole cast resin.</td></tr><tr><td>20</td><td>Potential Transformer for measurement of voltage</td><td>11kV/√3/110V/√3, Acc. Class-1, 100VA</td></tr><tr><td>21</td><td>Voltage factor</td><td>1.2 Continues, 1.9 for 8Hours</td></tr></table></td><td>Deleted</td></tr>
<tr><td>10</td><td>Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Table 3-1: Pg No. 12</td><td><table><tr><td>11</td><td>Rated lightning impulse withstand peak voltage (BIL) (1.2/50micro sec)</td><td>75 kV peak</td></tr><tr><td>12</td><td>Minimum Creepage distance</td><td>31 mm/ kV</td></tr></table></td><td><table><tr><td>11</td><td>Lightning impulse withstand voltage (BIL) (1.2/50micro sec)</td><td>110 k peak</td></tr><tr><td>12</td><td>Minimum creepage distance of bushing or supporting insulator from live part to ground</td><td>600 mm</td></tr></table></td></tr>
<tr><td>11</td><td>Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Table 3-1 Pg No. 12</td><td>Line Recloser Characteristics
24. Degree of Protection for switching & control unit IP-68</td><td>Line Recloser Characteristics
24. Degree of Protection for switching unit - IP-65 or better</td></tr>
</table>

Sl.No	Clause No	As per Tender Document	To be read as(in main & referred clauses)
12	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 3.3 (14) & 4.3 (14) Pg No. 13 & 25	One (1) bar-tap tee connector per main circuit lead for connecting to ACSR conductors of size Coyote and Rabbit.	Contractor shall provide all suitable connectors and accessories required to connect the sectionalizer to the OH distribution line
13	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 3.3 (19) & 4.3 (14) Pg No. 14 & 26	Switch Features Pressure releasing device for protection against pressure build-up higher than the permissible design pressure, but for switches of dead-tank type only.	Deleted
14	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 3.3 (3) & 4.3 (3) Pg No. 11 & 26	Switch Features-Puffer type switch or one that is based on a combination of the rotary and puffer arc- quenching principle.	Deleted
15	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Table 4-1	Load Break Switch Characteristics Rated short-time withstand current for 3 second - 16 kA	Load Break Switch Characteristics Rated short-time withstand current for 1 second - 12.5 kA

Sl.No	Clause No	As per Tender Document	To be read as(in main & referred clauses)
	Pg No. 24		
16	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Table 4-1 Pg No. 24	Load Break Switch Characteristics System standard voltage (r.m.s.) -11kV	Load Break Switch Characteristics Highest system voltage (r.m.s.) -12kV
17	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Table 4-1 Pg No. 24	Load Break Switch Characteristics Closing & Opening Mechanism - Permanent Magnetic Actuator	Load Break Switch Characteristics Closing & Opening Mechanism - Spring toggling mechanism
18	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 3.9 Pg No. 20	Auxiliary Power Transformer The LRC shall provide a single-phase auxiliary power transformer of outdoor cyclo-aliphatic resin cast type. The transformer shall be suitable for phase-to-ground connection to the 11-kV distribution network in order to provide a 230 VAC, 500vA output for distribution to the SPS as used, for example, to power the LRC switch gear, RTU, and remote radio. The auxiliary power transformer shall be pole-mounted (ideally on the same pole structure on which the LRC will be mounted), and shall be properly earthed via a GI strip of suitable size.	Auxiliary Power Transformer The LRC shall provide a 2-phase auxiliary power transformer of outdoor cyclo-aliphatic resin cast type. The transformer shall be suitable for phase-to-phase connection to the 11-kV distribution network in order to provide a 230 VAC, 500vA output for distribution to the SPS as used, for example, to power the LRC switch gear, RTU, and remote radio. The auxiliary power transformer shall be pole-mounted (ideally on the same pole structure on which the LRC will be mounted), and shall be properly earthed via a GI strip of suitable size.

Sl.No	Clause No	As per Tender Document	To be read as(in main & referred clauses)
19	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 4.8 Pg No. 28	Auxiliary Power Transformer The LBS shall provide a single-phase auxiliary power transformer of outdoor cyclo-aliphatic resin cast type. The transformer shall be suitable for phase-to-ground connection to the 11-kV distribution network in order to provide a 230 VAC, 500vA output for distribution to the SPS as used, for example, to power the LRC switch gear, RTU, and remote radio. The auxiliary power transformer shall be pole-mounted (ideally on the same pole structure on which the LRC will be mounted), and shall be properly earthed via a GI strip of suitable size.	Auxiliary Power Transformer The LBS shall provide a 2-phase auxiliary power transformer of outdoor cyclo-aliphatic resin cast type. The transformer shall be suitable for phase-to-phase connection to the 11-kV distribution network in order to provide a 230 VAC, 500vA output for distribution to the SPS as used, for example, to power the LBS switch gear, RTU, and remote radio. The auxiliary power transformer shall be pole-mounted (ideally on the same pole structure on which the LBS will be mounted), and shall be properly earthed via a GI strip of suitable size.
20	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 3.4.2 & 4.4.2 Pg No. 15 & 26	The voltage sensors shall be of three-phase inductive voltage transformer type in YNyn0 connection.	Deleted
21	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 3.8 & 4.7 Pg No. 19 &	The electronic component modules within the control cabinet shall have a minimum protection level of IP 56 or better. The control cabinet itself shall have an overall protection level of at least IP 56 or better.	The electronic component modules within the control cabinet shall have a minimum protection level of IP 65. The control cabinet itself shall have an overall protection level of at least IP 56 or better.

Sl.No	Clause No	As per Tender Document	To be read as(in main & referred clauses)
	27		
22	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 3.10 & 4.9 Pg No. 21 and 29	1) Battery standby time shall not be less than 8 hours and shall allow for a minimum of ten (10) sequences of LRC trip-close operations and a transmit/receive standby duty cycle of 10/90 percent with respect to the radio/modem.	1) Battery standby time shall not be less than 24 hours and shall allow for a minimum of ten (10) sequences of LRC trip-close operations and a transmit/receive standby duty cycle of 10/90 percent with respect to the radio/modem.
23	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 3.12 & 4.11 Pg No. 23 and 31	Auxiliary Transformer neutral	Deleted
24	Section – 6(C) Technical Specifications for Line Reclosers and Load Break Switches Clause: 3.4.1 & 4.4.1 Pg No. 17 and 30	Current Sensors The output of the current sensors shall be in accordance with the sectionalizer's design. As a minimum, however, they shall have an accuracy of ±2.5% or better at rated normal current and ±10% or better at twenty (20) times rated normal current. This accuracy shall be maintained while the sensors are connected to the RTU current input card and other equipment according to the manufacturer's design.	Current Sensors The output of the current sensors shall be in accordance with the sectionalizer's design. As a minimum, however, they shall have an accuracy of ±2.5% or better at rated normal current and **±5%** or better at twenty (20) times rated normal current. This accuracy shall be maintained while the sensors are connected to the RTU current input card and other equipment according to the manufacturer's design.

All other terms and conditions of Technical specification document of LRC & LBS remains unaltered.

General Manager (Ele)
DAS, SG & TIC, BESCOM